Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A holographic recording medium comprising, in a substantially identical plane,

a single recording layer comprising a holographic recording material sandwiched from both sides by two substrates having an uneven shape including a step in thickness; and

a recording the single recording layer having a white-light reconstruction holographic recording layer region and a Fourier holographic recording layer region,

the white-light reconstruction holographic recording layer region being capable of forming a white-light reconstruction hologram and having a thickness of 2 μm to 80 μm ,

the Fourier holographic recording layer region being capable of multiplexed hologram recording and having a thickness of $100~\mu m$ to 2~cm, and

the thickness of each of the white-light reconstruction holographic recording layer region and Fourier holographic recording layer region being changed by the step height of the two substrates.

- 2. (Original) The holographic recording medium according to claim 1, wherein the white-light reconstruction holographic recording layer region is 3 μ m to 40 μ m thick, and the Fourier holographic recording layer region is 100 μ m to 5 mm thick.
- 3. (Currently Amended) A holographic recording medium comprising, in a substantially identical plane,

a single recording layer comprising a holographic recording material sandwiched from both sides by two substrates having an uneven shape including a step in thickness; and

a recording the single recording layer having a white-light reconstruction holographic recording layer region and a Fourier holographic recording layer region,

the white-light reconstruction holographic recording layer region having a thickness of 2 μm to 80 μm and a white-light reconstruction hologram being formed in at least a part of the white-light reconstruction holographic recording layer region,

the Fourier holographic recording layer region having a thickness of 100 µm to 2 cm and multiplexed holograms being recorded in at least a part of the Fourier holographic recording layer region, and

the thickness of each of the white-light reconstruction holographic recording layer region and Fourier holographic recording layer region being changed by the step height of the two substrates.

- 4. (Original) The holographic recording medium according to claim 3, wherein the white-light reconstruction holographic recording layer region is 3 μ m to 40 μ m thick, and the Fourier holographic recording layer region is 100 μ m to 5 mm thick.
- 5. (Original) The holographic recording medium according to claim 3, wherein a hologram formed in the white-light reconstruction holographic recording layer is a reflection hologram.
- 6. (Original) The holographic recording medium according to claim 4, wherein a hologram formed in the white-light reconstruction holographic recording layer is a reflection hologram.

7-8. (Canceled)

- 9. (Previously Presented) A method of holographic recording comprising the step of irradiating, as an object beam, a two-dimensional pattern image created by a spatial light modulator to a white-light reconstruction holographic recording layer region in a holographic recording medium comprising, in a substantially identical plane, the white-light reconstruction holographic recording layer region capable of forming a white-light reconstruction hologram, having a thickness of 2 μm to 80 μm, and a Fourier holographic recording layer region capable of multiplexed hologram recording, having a thickness of 100 μm to 2 cm, the object beam is modulated by the spatial light modulator, is switched to an optical path different from an optical path used for irradiating the two-dimensional pattern image, is Fourier-transformed, and then is irradiated as an information beam to the Fourier holographic recording layer region in the holographic recording medium.
- 10. (Previously Presented) The method of holographic recording according to claim 9, wherein the white-light reconstruction holographic recording layer region is 3 μ m to 40 μ m thick, and the Fourier holographic recording layer region is 100 μ m to 5 mm thick in the holographic recording medium.